

CLAIMS

1. An information processing apparatus, comprising:

a separating unit operable to separate an input multiplexed stream into a first stream of first stream information and a second stream of stream information other than said first stream information;

a setting unit operable to set a bit rate of an output multiplexed stream;

a controller operable to control coding conditions for reencoding said first stream on the basis of a bit rate of said second stream and said bit rate of said output multiplexed stream;

a coding unit operable to reencode said first stream under said coding conditions; and

a multiplexing unit operable to multiplex said reencoded first stream and said second stream to produce said output multiplexed stream.

2. An information processing apparatus as claimed in claim 1, wherein said controller is operable to control said coding conditions by determining a bit rate difference between said bit rate of said output multiplexed stream and said bit rate of said second stream, and setting said bit rate difference as a bit rate assigned to said first stream at the time of reencoding.

3. An information processing apparatus as claimed in claim 2, wherein said coding conditions include at least one of said bit rate difference and a video frame.

4. An information processing apparatus as claimed in claim 1, wherein said controller is operable to control said coding conditions also based on said first stream information.

5. An information processing apparatus as claimed in claim 2, wherein said controller is operable to control said coding conditions so as to reencode said first stream at a fixed bit rate.

6. An information processing apparatus as claimed in claim 2, wherein said controller is operable to control said coding conditions so as to reencode said first stream at a variable bit rate.

7. A method for reencoding an input multiplexed stream to provide an output multiplexed stream, comprising:

separating said input multiplexed stream into a first stream of first stream information and a second stream of stream information other than said first stream information;

setting a bit rate of said output multiplexed stream;

controlling coding conditions for reencoding said first stream on the basis of a bit rate of said second stream and said bit rate of said output multiplexed stream;

reencoding said first stream under said coding conditions; and

multiplexing said reencoded first stream and said second stream to produce said output multiplexed stream.

8. A method as claimed in claim 7, wherein said

controlling step controls said coding conditions by determining a bit rate difference between said bit rate of said output multiplexed stream and said bit rate of said second stream, and setting said bit rate difference as a bit rate assigned to said first stream at the time of reencoding.

9. An information processing method as claimed in claim 8, wherein said coding conditions include at least one of said bit rate difference and a video frame.

10. An information processing method as claimed in claim 8, wherein said controlling step controls said coding conditions also based on said first stream information.

11. An information processing method as claimed in claim 8, wherein said controlling step controls said coding conditions so as to reencode said first stream at a fixed bit rate.

12. An information processing method as claimed in claim 8, wherein said controlling step controls said coding conditions so as to reencode said first stream at a variable bit rate.

13. A recording medium recorded with a computer readable program for reencoding an input multiplexed stream to provide an output multiplexed stream, said computer readable program comprising:

separating said input multiplexed stream into a first stream of first stream information and a second stream of stream information other than said first stream information;

setting a bit rate of said output multiplexed stream;

controlling coding conditions for reencoding said first stream on the basis of a bit rate of said second stream and said bit rate of said output multiplexed stream;

reencoding said first stream under said coding conditions; and

multiplexing said reencoded first stream and said second stream to produce said output multiplexed stream.

14. A recording medium as claimed in claim 13, wherein said controlling step of said program controls said coding conditions by determining a bit rate difference between said bit rate of said output multiplexed stream and said bit rate of said second stream, and setting said bit rate difference as a bit rate assigned to said first stream at the time of reencoding.

15. A recording medium as claimed in claim 14, wherein said coding conditions include at least one of said bit rate difference and a video frame.

16. A recording medium as claimed in claim 14, wherein said controlling step of said program controls said coding conditions also based on said first stream information.

17. A recording medium as claimed in claim 14, wherein said controlling step of said program controls said coding conditions so as to reencode said first stream at a fixed bit rate.

18. A recording medium as claimed in claim 14,

wherein said controlling step of said program controls said coding conditions so as to reencode said first stream at a variable bit rate.